



**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

CONTRACTOR

CONTRACT NO. / TASK NO.

QSS Group, Inc.

NAS5-

99124

TASK NO.

323

AMENDMENT

Applicable paragraphs from contract Statement of Work:

**STATEMENT OF WORK:** (Continue on blank paper if additional space is required)

The contractor shall perform a comprehensive study of hazardous events in the ICESat observatory, instrument and spacecraft subsystems and operations and an analysis of the probability or frequency of top-level undesirable events. Using approved tools, mission documents and relevant analysis, the contractor shall complete and deliver an ICESat Fault Tree analysis and Probabilistic Risk Assessment which complies with the appropriate NASA reference documentation and guidelines.

The contractor shall develop a plan and schedule with key milestones for the entire effort and provide regular updates and status regarding progress and problem areas. Significant issues shall be quickly identified that require immediate attention. The contractor shall identify documentation and/or data with need dates to perform the work required in this SOW. Proposed tools shall be identified and fully described.

No travel is anticipated to accomplish the work in this task.

**PERFORMANCE SPECIFICATIONS:**

The analysis is acceptable if the top level event have been identified and that all lower level causes have been clearly shown and completely decomposed down to the level that is consistent with the ICESat FMEAs results. In addition, the analysis results shall utilize the approved tools and techniques

**APPLICABLE DOCUMENTS:**

ICESat Mission System Requirements Document  
ICESat Spacecraft Performance Specification  
ICESat Spacecraft FMEA  
GLAS FMEA  
GLAS ICD  
GPS ICD  
NASA Reference Publication 1358 System Engineering Tool Box  
The Fault Tree Handbook, NUREG-0492 January 1981

**TASK END DATE:** 4/30/01**MILESTONES/DELIVERABLES AND DATES:**

ICESat Mission Fault Tree Analysis and Probabilistic Risk Assessment Report 1/31/01

**PERFORMANCE STANDARDS:****Schedule:** Submit report by due date**Technical:** Report complies with NASA requirements for this type analysis**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

Michael Tasevoli, building 16, room 240